

Fig. 1

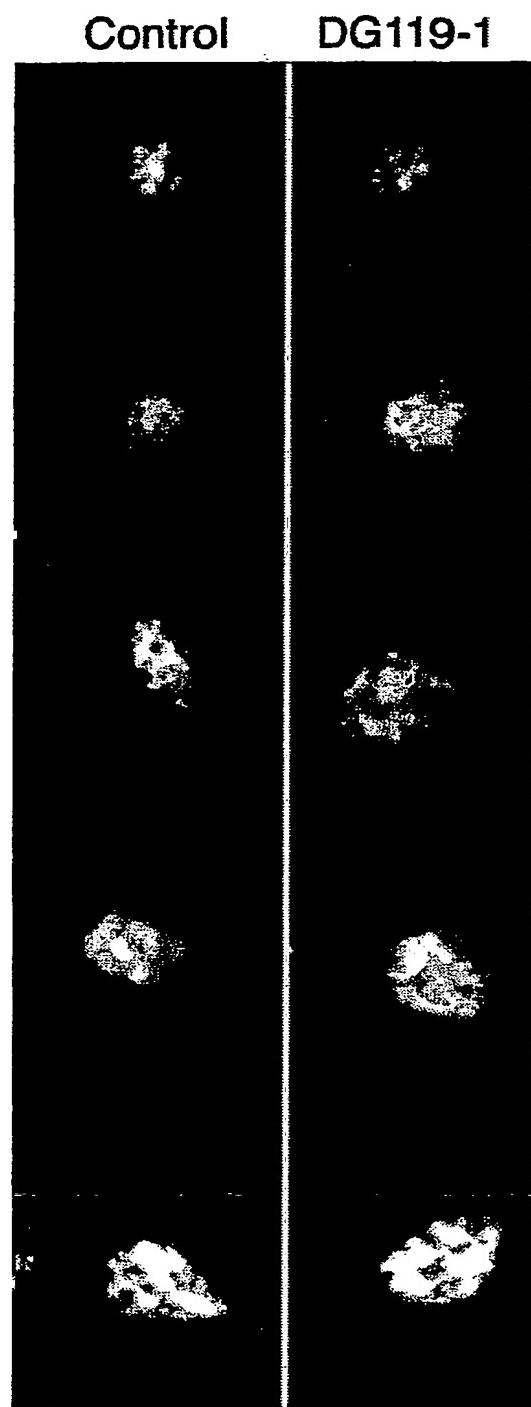


Fig. 2

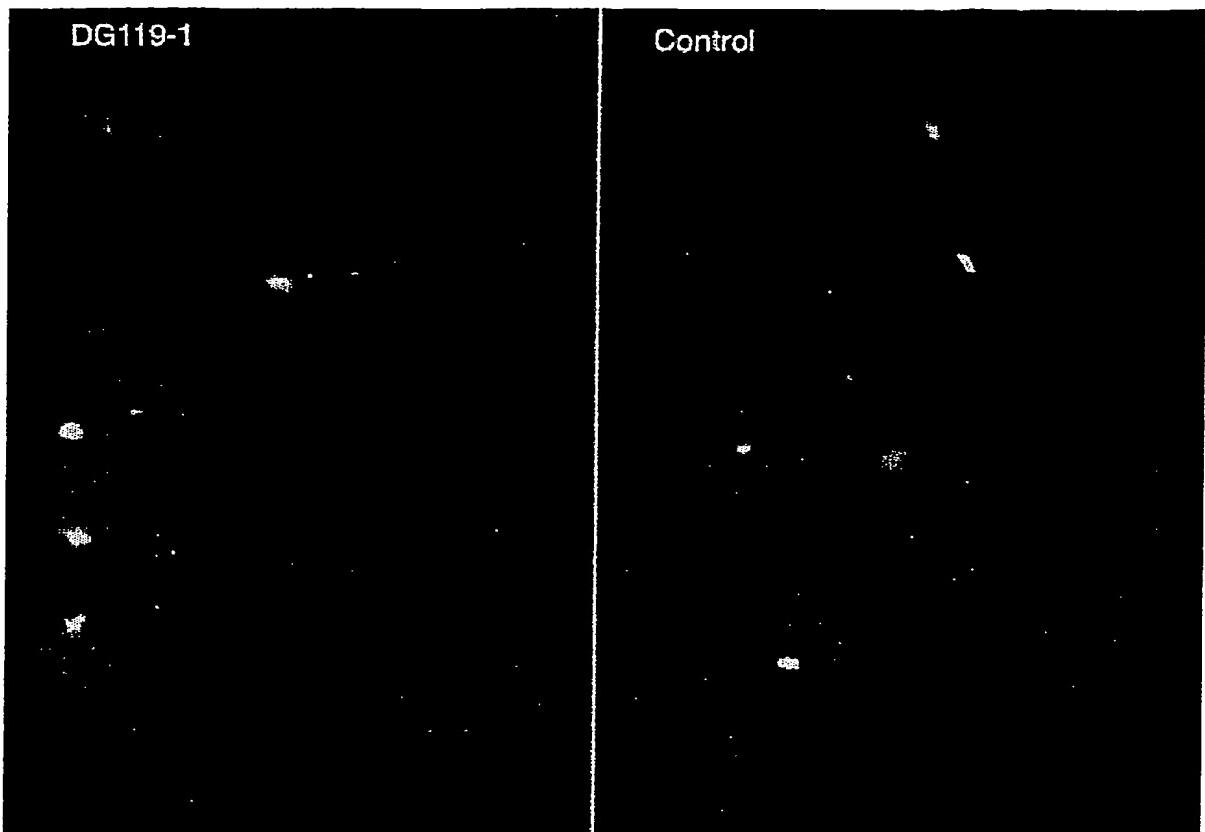


Fig. 3

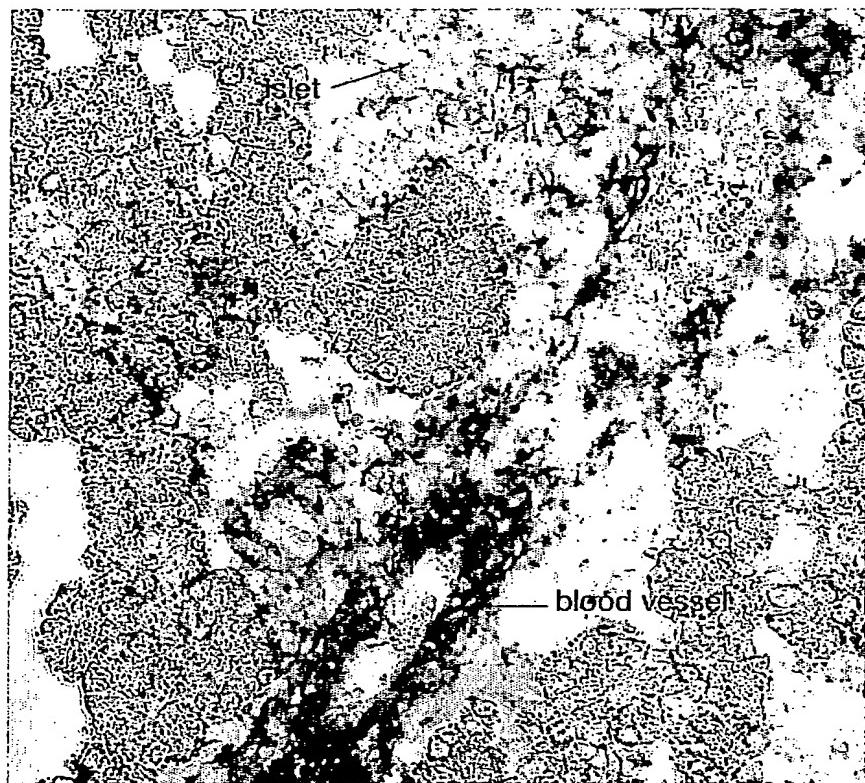


Fig. 4A

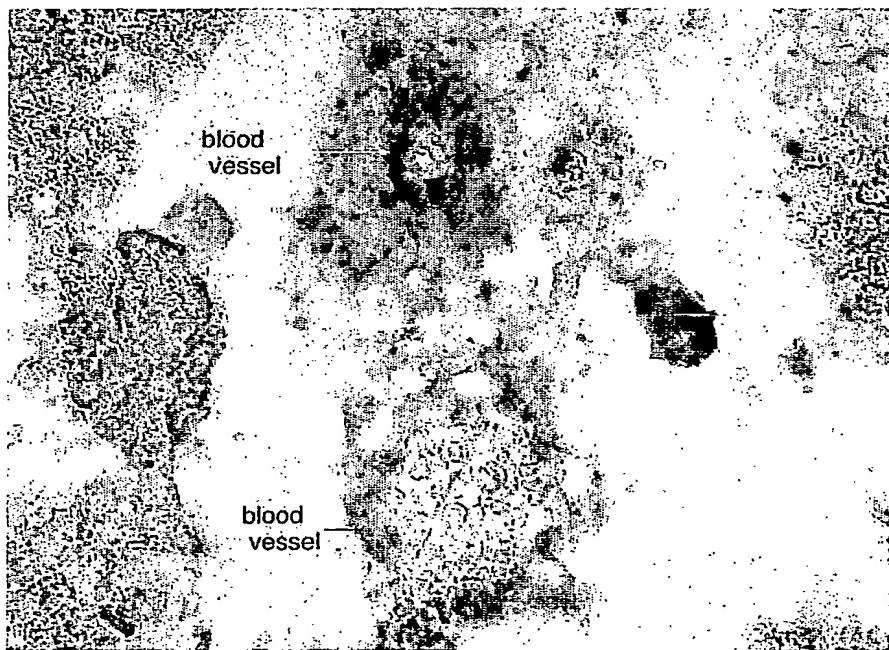


Fig. 4B

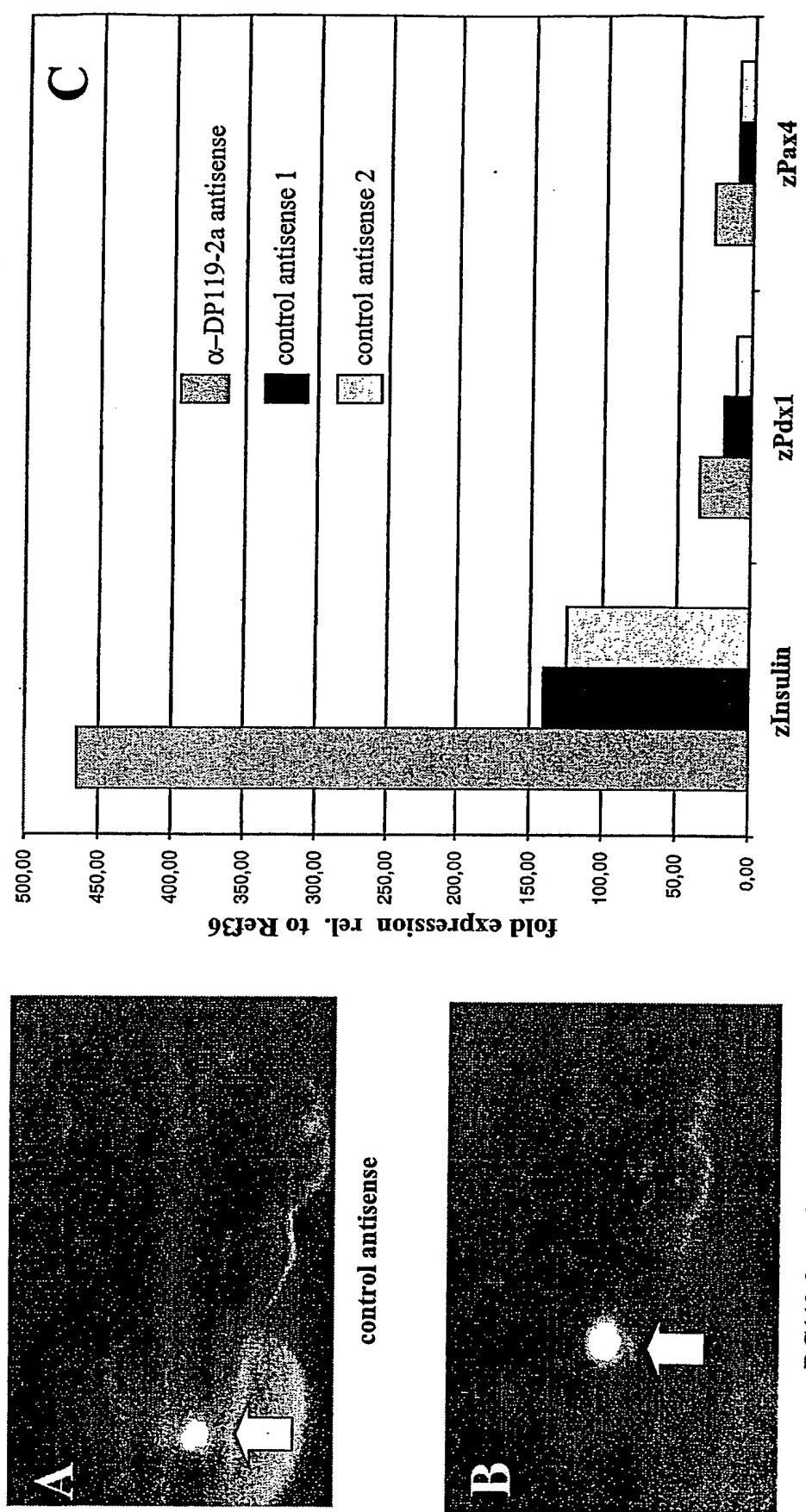


Fig. 5

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1 MTEMKIWCVL LMAFALTSAA PKSHLRLEEK TKDNNDTLQV EIDNQEHLIS QLLGDYDKVK
 61 ALSEGSDCGC KCVVRPLSAS ACQIREGHA TPQDFYTVET ITSGPHCKCA CIAPPSALNP
 121 CEGDFRLKKL RQAGKDNIKL STILEELLEGS FYGMDLLKLH SVTTKILDRLM DTIEKMVLNN
 181 QTEEKLNTIS TSPNPQLSTS SPTTLPNSVIO EKSTSLRQON DEAAAFOHME SKYEEKFVGD
 241 ILNSGSDLNK ATTALQESEQ QGRKKQPKIT VRGITYYRSD PVDEMDSEKN LKETSASSVT
 301 QTGALIKEHL KASTOSTLNT LTPSPPTSHSN ALTVTTESSVG INAHKGEVTI IVMTASVTGS
 361 KTDSTDLTQ LSPRVRETLT TTTRTTKAT TSQPVKRKYS ISWDEEEEAV VPEQVEEEKA
 421 VKPVPVEDKVG EEPORKPGTA HHQAKTISTV KQQIKFSLGM CKDTLATISE PITHNTYGRN
 481 EGAWMKDPLD QDDKIYVITNY YYGNNLLEFR NIDVFQGRF TNSYKLPYNW IGTGHVVYKG
 541 AFYYNRAFSR DIIKFDLRLR YVAATMLHD AVFENDDVSS WRWRGNSDMD LAIDESGLWV
 601 IYPALDDEGF LQEIVLVSRL NPTDLSMKRE TTWRTGLRRN RYGNCFIVCG VLYATDSYNQ
 661 QDTNLSYAFD THTNTQVIPH LPFSNNYTYV TQIDYNPKER VLYAWDNGHQ VTYNVQFAY

Fig. 6A

1 MGLLLYIFCC VFCLTRANVE QQATDNTDNR ATLEDEMDO ENILTOLIGD YDKVKTLSEG
 61 SDCQCKCVVR PMSRSACKRI EEAQAKIEDF YTVEPVTAGP NCKKCACIAP PSALNPCEGD
 121 FRFKKLOKTG OYDIKLSNIM DLLEERVVDNI EKGEKGQGKG ARSNQRQEKK KRLSVVCWSL
 181 HCRRTQQRLL LTLRYRCXSV LEPSLQKNAA AAFAHTEVQM QQFIPDQRKY EFKFVGQNGP
 241 SKPVLKKSKS EGQEEQHKPA KTKADAKNMS LRSMTFYKAN RMEDSEGEER DLII EDQLHK
 301 QGLNTPVITP EATVTVTQST TINLNTQNFT TARMSNVTKO TQGQSVKAMM SSTITTERPT
 361 MPTSTTSTST MTPGTNTTTI ATPLVVPKQL ASVTVGQVSN SYKLPYNWIG TGHVVYSGSF
 421 FYNRAFSRDI IRFDLRLRYV AAWTTLHDAI LEEEEAPWTW GGHSDIDFSV DESGLWLVYP
 481 ALDDEGFHQE VIILSKLRAS DLQKEKSWRT GLRRNYYGNC FVICGVLYAV DSFERTHANI
 541 SYAFDTHTHT QMIPRLPFIN NYTYTTQIDY NPKERMLYAW DNGHQVTVYDV IFAY

Fig. 6B

1 MWRIVELVAC LLMMSSHVSS QSKIFGEEQV RMTSEGSDCR CKCIMRPLTR DACARLRTGS
 61 VRVEDFYTV ETVSSGADCKC SCTAPPSSLN PCENEWKREK LKKQAPELLK LQSMVDSLLEG
 121 TLFSDM DLLKV HSYINKVVSQ MNNLEE

Fig. 6C

1 MWIYASVLTY LLLLTRDARS LSKIFGEPEP VKMISEGSDC RCKCVMRPLS IEACSRRLRDG
 61 SLRVDDFYTV ETVSSGSDCK CSCTAPPSSL NPCENEWRTE KLXKQAPELL KLHSMVDSLLE
 121 GTLYSMDLMK VHAYMNKVVS QMNTLEEVMT IKTNLTRENE FVRDSVNLNS NQLKRYENYS
 181 DIMVISIKKEI SSLGLQLLQK DAASDSKAQV GTESKKSKA IKPPNKKPPA VKPPPQKOPKE
 241 KPVKPKKEAP AKAAKPAKPD PTTKTKTSVH QTGVIRGITY YKASKSE

Fig. 6D

DG119-1	Mm	10	20	30	40	50	60	
DG119-1	Hs	-----MAYPLPLVLCFALVVAQVGSTTPPTGTSEPPDVQTVEPTEDDILQNEADNQEN						
DG119-1a	Dr	-----MAKPRLLVLYFALIVVPAWVSSIVLTGTSEPPDAQTVAPAEDETLQNEADNQEN						
DG119-1b	Dr	-----MTEMKICVLLMAFALTSAAPKS-----HLRLEEKTKDNNDTLOVEIDNOEH						
DG119-2a	Dr	-----MGLLLYIFCCVFCLTRAN-----VEQQATDNTDNRATLEDEMDNQEN						
DG119-2b	Dr	-----MWRIVELVACLIMMSS-----HVS						
DG119-2	Mm	-----MWIYASVLTYLLLLTR-----DAR						
DG119-2	Hs	MEAAAVLPRLQLRLLLVLVLLVLLRAG-----PVW						
		-----MAAAALPPRPLLPLVLLSGR-----PTR						
			70	80	90	100	110	120
DG119-1	Mm	VLSQLLGDYDKVKAVSEGSDCQCKVCVRPLGRDACQRINQGASRKEDFYTVETITSGSSC						
DG119-1	Hs	VLSQLLGDYDKVKAMSEGSDCQCKVCVRPLGRDACQRINAGASRKEDFYTVETITSGSSC						
DG119-1a	Dr	IILSQLLGDYDKVKTLSEGSDCQCKVCVRPLRSACQRIREGHATPQDFYTVETITSGPHC						
DG119-1b	Dr	IILTQLIGDYDKVKTLSEGSDCQCKVCVRPMRSACKRIEEAQAKIEDFYTVETPVTAGPNC						
DG119-2a	Dr	SQSKIFGE-EQVRMTSEGSDCRCKCIMRPLRADCARLRTGSRVVEDFYTVETVSSGADC						
DG119-2b	Dr	SLSKIFGEPEPVKMI SEGSDCRCKCIMRPLS TEACSRSLRDGSLRVDDFYTVETVSSGADC						
DG119-2	Mm	PDSKVFSDLQDQVRMTSEGSDCRCKCIMRPLSKDACSRVRSGRARVEDFYTVETVSSGADC						
DG119-2	Hs	ADSKVFGDLDQVRMTSEGSDCRCKCIMRPLSKDACSRVRSGRARVEDFYTVETVSSGADC						
		----- Cystein rich domain -----						
			130	140	150	160	170	180
DG119-1	Mm	K-CACVAPPSSAVNPCEGDFRQLQKLREADSDLK-----						
DG119-1	Hs	K-CACVAPPSSALNPCEGDFRQLQKLREADSDLKVGPGMGQCLGREGTFEIHKGKAMVED						
DG119-1a	Dr	K-CACIAPPSSALNPCEGDFRQLQAGKDNIK-----						
DG119-1b	Dr	KKCACIAPPSSALNPCEGDFRFLQKLTGQYDIK-----						
DG119-2a	Dr	K-CSCTAPPSSLNPCENEWKRKEKLKKQAPELLKLQ-----						
DG119-2b	Dr	K-CSCTAPPSSLNPCENEWRTEKLXKQAPELLKLH-----						
DG119-2	Mm	R-CSCTAPPSSLNPCENEWKMELKKQAPELLKLQ-----						
DG119-2	Hs	R-CSCTAPPSSLNPCENEWKMELKKQAPELLKKS-----						
		----- Cysteine rich domain -----						
			190	200	210	220	230	240
DG119-1	Mm	-----LSTIID						
DG119-1	Hs	SKPFEEGLSHFLTQTFRKAECTTYTIVLAYIPVYTNVFLTATSQFLASGFPVEPPLSTIID						
DG119-1a	Dr	-----LSTILE						
DG119-1b	Dr	-----LSNIMD						
DG119-2a	Dr	-----SMVD						
DG119-2b	Dr	-----SMVD						
DG119-2	Mm	-----SMVD						
DG119-2	Hs	-----						
			250	260	270	280	290	300
DG119-1	Mm	MLEGAFYGLDLLKLHSVTTKLVG-----RVDKLEE						
DG119-1	Hs	MLEGAFYGLDLLKLHSVTTKLVGRVDKLEEMLEGAFYGLDLLKLHSVTTKLVGRVDKLEE						
DG119-1a	Dr	LLEGSFYGM DLLKLHSVTTKIL-----RMDTIEK						
DG119-1b	Dr	LLEGSFYGM DLLKLHSVTTKLL-----RVDNIEK						
DG119-2a	Dr	LLEGTLFSMD DLLKVVHSYINKVVS-----QMNLLEE						
DG119-2b	Dr	LLEGTLVYSMD LMKVHAYMNKVV-----QMNTLEE						
DG119-2	Mm	LLEGALYSMD LMKVHAYIQKVAS-----QMNLLEE						
DG119-2	Hs	-----						
			310	320	330	340	350	360
DG119-1	Mm	E--VSKNLTKENEQIKEDVEEIRTEL-NKGKENCSDNTLESMPDIRSALQRDAAA-----						
DG119-1	Hs	E--VSKNLTKENEQIKEDMEEIRTEMN-KRGKENCSENILDMSMPDIRSALQRDAAA-----						
DG119-1a	Dr	M--VLIQNQTEEKLINTISTSPNP-----QLSTS-----PTTLPSPVIQEKST-----						
DG119-1b	Dr	S--FSGNLTKEKVSVKGEGKQG-----KGARSNQRQEKKRSLVLEPSLQKNAAA-----						
DG119-2a	Dr	-----						
DG119-2b	Dr	VMTIKTNL TRENEFVRDSVNVNLSNQLKRYENYSDIMVSIIKEISSLGLQLLQKDAA-----						
DG119-2	Mm	S--IKANLSLENKVVKDSVHHLSEQLKSYENQSAIMMSIKKESSLGLQLLQRDAAVPA-----						
DG119-2	Hs	---IKANLSRENEVVKDSVRHLSEQLRHYNHSAIMLGIKKELSRLGLQLLQKDAAAAPA-----						

Fig. 7

		370	380	390	400	410	420
DG119-1	Mm	-----AYAHP--EYEERFLQEETVSQINSIELLRTQPLVPPAAMKQQRPLQRQVHL					
DG119-1	Hs	-----AYAHP--EYEERFLQEETVSQINSIELLQTRPLALPEVVKSQRPLQRQVHL					
DG119-1a	Dr	-----SLRQN-DEAAAOFHMESKYEEKFVGDLILNSGSIDLNAATTALQE--QEQQGR					
DG119-1b	Dr	-----AFAHTE-VQMQQFIPDQRKYEEKFVGNGQPSKPVLKKSSEGQE--EQHKPA					
DG119-2a	Dr	-----					
DG119-2b	Dr	-----SDSKAQVGTESKRSKEAIKPPNKPKPAVKPPPQPKPKEKPKVPKKEAPAKAAKPA					
DG119-2	Mm	TAPASSPDASKAQTDTAGGQGRDLNKYGSIQKSFSDKGLAKPPKEKLKVEKLR-KESIKGR					
DG119-2	Hs	TPATG-TGSKAQDTARGKGKDISKYGSVQKSFDARGLPKPKPKEKLQVEKLR-KESGKGS					
		430	440	450	460	470	480
DG119-1	Mm	-----RGRLASK-----PTVIRGITYYKAKVSEEEENDIEEHQDELFGDSGVDLLIEDQLLRQ					
DG119-1	Hs	-----RGRPASQ-----PTVIRGITYYKAKVSEEEENDIEQQDEFSGDNGVDLLIEDQLLRH					
DG119-1a	Dr	-----KKQP-----KITVRGITYYRSDPVDEMDSKLNKETSASSVTQTGALIKEHLKAS					
DG119-1b	Dr	-----KTAKADAK-----NMSLRSMTFYKANRMEDSEGE-----RMDLIIEDQLHKQ					
DG119-2a	Dr	-----					
DG119-2b	Dr	-----KPDPTTKTJKTSVHQTGVIRGITYYKASKSE-----					
DG119-2	Mm	-----IPQPTARPRALAQQQAVIRGFTYYKAGRQEARQEAPKAAADSTLKGTSWLEKLPK					
DG119-2	Hs	-----FLQPTAKPRALAQQQAVIRGFTYYKAGKQE-----VTEAVADNALQGTTSWLEQLPPK					
		490	500	510	520	530	540
DG119-1	Mm	-----ED--LLTSATRRPATTR--HTAAVTTDASTQAAASSSEPAQASASASSFVEPAPQASDRE					
DG119-1	Hs	-----NG--LMTSVRRAPATRQGHSTAVENTSDLNARTAPWSSALPQPSTSNDPSIANHASVGP-----					
DG119-1a	Dr	-----TQSTLNLTSPSPTSHSNALTVPESSVGINAHKGEVITIVMTASVTGSKTDSTVTDLTLSP					
DG119-1b	Dr	-----G---LNTPVTTPEAT---VTVTQSTT--INLNTQNFTTARMNSVTKQTQGQSVKAMMSS-----					
DG119-2a	Dr	-----					
DG119-2b	Dr	-----					
DG119-2	Mm	-----IEAK--LPEPNSAKHDDVRLQASEGGNLTPDITTTTSTSSTTTTGTTSTTSTTSTS					
DG119-2	Hs	-----VEGRNSNSAEPNSAEQDEAEPRSSERVDLASGTTLILPPHSLHHHSTPVLATPAPPFLQC					
		550	560	570	580	590	600
DG119-1	Mm	-----LLATPQTTTVFPEPTG-----VMPSTQVSPTTVAHTAVQP-----LPAMVPGDIFVEALPLV					
DG119-1	Hs	-----TLQTTSVSPDPTRRESVLQPSQPVPAITVAHTATOOQPAAPAPPAVSPREALMEAMHTV					
DG119-1a	Dr	-----RVRETLTTRTTTKTA---TTSQPVKRKYISIWDEEEE-----AVVP-EQVEEKAVK					
DG119-1b	Dr	-----TITTERPTMPTS---TTSTSTMTPGTNTTTIATP-----LVVP-KQLAR-----					
DG119-2a	Dr	-----					
DG119-2b	Dr	-----					
DG119-2	Mm	-----TTTPSP-----					
DG119-2	Hs	-----HNKPVPSPRRWQTPSRALPGWSNCRPRWRAGPTQSPTPQSRMRLSPGPPSEWTLLAP					
		610	620	630	640	650	660
DG119-1	Mm	-----PLLPDTVGTDMPEEEGTAGQEATSAGPILSPEEEDDIRNVIG-----					
DG119-1	Hs	-----PVPPPTVRTDSDLGKDAPAGWGTTPASPTLSPEEEDDIRNVIG-----					
DG119-1a	Dr	-----PVVEDKVGEEPQRKPGTAHHQAKTISTVKQQIKFSLG-----					
DG119-1b	Dr	-----					
DG119-2a	Dr	-----					
DG119-2b	Dr	-----					
DG119-2	Mm	-----ITTPWPTEPPLHPEVPSQGRED-----					
DG119-2	Hs	-----HFNPCHHHHRHPHQPPPTSSLPTTEPPSGFEVSSQGRE-----					
		670	680	690	700	710	720
		730	740	750	760	770	780
DG119-1	Mm	-----RCKDTLSTITGPTTQNTYGRNEGAWMKDPLAKDDRIYVTNYYGNTLVEFRNLEN					
DG119-1	Hs	-----RCKDTLSTITGPTTQNTYGRNEGAWMKDPLAKDERIYVTNYYGNTLVEFRNLEN					
DG119-1a	Dr	-----MCKDTLATICSEPITHNTYGRNEGAWMKDPLDQDDKIYVTNYYGNLLEFRNIDV					
DG119-1b	Dr	-----ICKDTLASICDPVTHNKYGNKNEGAWMKDPKGNGKVVVTDYYGNQLLEFRDIDT					
DG119-2a	Dr	-----					
DG119-2b	Dr	-----					
DG119-2	Mm	-----SCEGTLRAVDPPVKHHSYGRHEGAWMKDPAALDDRIYVTNYYGNSLVEFRNLEN					
DG119-2	Hs	-----SCEGTLRAVDPPVRHHSYGRHEGAWMKDPAARDRIYVTNYYGNSLVEFRNLEN					
		----- Olfactomedin-like domain -----					

Fig. 7 (cont.)

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		790	800	810	820	830	840	
DG119-1	Mm	----- ----- ----- ----- ----- ----- ----- -----	FKQGRWSNSYKLPYSWIGTGHVVYNGAFYYNRAFTRNIIKYDLKQRYVAAWAMLHDVAYE					
DG119-1	Hs	----- ----- ----- ----- ----- ----- ----- -----	FKQGRWSNSYKLPYSWIGTGHVVYNGAFYYNRAFTRNIIKYDLKQRYVAAWAMLHDVAYE					
DG119-1a	Dr	----- ----- ----- ----- ----- ----- ----- -----	FKQGRFTNSYKLPYNWIGTGHVVYKGAFFYNRAFSRDIICKFDLRLRYVAAWTMLHDVAYE					
DG119-1b	Dr	----- ----- ----- ----- ----- ----- ----- -----	FKQGQVSNSYKLPYNWIGTGHVVYSGSFFYNRAFSRDIIRFDLRLRYVAAWTMLHDVAYE					
DG119-2a	Dr	----- ----- ----- ----- ----- ----- ----- -----						
DG119-2b	Dr	----- ----- ----- ----- ----- ----- ----- -----						
DG119-2	Mm	----- ----- ----- ----- ----- ----- ----- -----	FRQGRWSNMYKLPYNWIGTGHVVYQGAFYYNRAFTKNIIKYDLRQRFVASWALLPDVYYE					
DG119-2	Hs	----- ----- ----- ----- ----- ----- ----- -----	FKQGRWSNMYKLPYNWIGTGHVVYQGAFYYNRAFTKNIIKYDLRQRFVASWALLPDVYYE					
Olfactomedin-like domain -----								
		850	860	870	880	890	900	
DG119-1	Mm	----- ----- ----- ----- ----- ----- ----- -----	--EATPWWRQGHSDVDFAVDENGLWLIPALDD--EGFMQEIVILSKLNAVDLSTQKETTW					
DG119-1	Hs	----- ----- ----- ----- ----- ----- ----- -----	--EATPWWRQGHSDVDFAVDENGLWLIPALDD--EGFSQEIVILSKLNAADLSTQKETTW					
DG119-1a	Dr	----- ----- ----- ----- ----- ----- ----- -----	NDDVSSWRWRGNNSDMDLAIDESGLWVIYPALDD--EGFLQEVIVLSRLNPDTLSMKRETTW					
DG119-1b	Dr	----- ----- ----- ----- ----- ----- ----- -----	-EEAPWTWGGHSIDF SVDESGLWLVYPALDD--EGFHQEVIILSKLRASDL--QKEKSW					
DG119-2a	Dr	----- ----- ----- ----- ----- ----- ----- -----						
DG119-2b	Dr	----- ----- ----- ----- ----- ----- ----- -----						
DG119-2	Mm	----- ----- ----- ----- ----- ----- ----- -----	--DTPPWKRGRHSIDFAVDESGLWVIYPAVDEHDETQHEVIVLSRLDPADLSVHIRETTW					
DG119-2	Hs	----- ----- ----- ----- ----- ----- ----- -----	--DTPPWKRGRHSIDFAVDESGLWVIYPAVDDRDEAQPEVIVLSRLDPGDL SVHIRETTW					
Olfactomedin-like domain -----								
		910	920	930	940	950	960	
DG119-1	Mm	----- ----- ----- ----- ----- ----- ----- -----	RTGLRRNFYGNCFVICGVLYAVDSYNQRNANISYAFDTHTNTQIVPRLLFENEYSYTTQI					
DG119-1	Hs	----- ----- ----- ----- ----- ----- ----- -----	RTGLRRNFYGNCFVICGVLYAVDSYNQRNANISYAFDTHTNTQIVPRLLFENEYSYTTQI					
DG119-1a	Dr	----- ----- ----- ----- ----- ----- ----- -----	RTGLRRNRGYGNCFVICGVLYATDSYNQQDTNLISYAFDTHTNTQVIPHLPFSENNTYVTQI					
DG119-1b	Dr	----- ----- ----- ----- ----- ----- ----- -----	RTGLRRRNYYGNCFVICGVLYAVDSFER THANISYAFDTHTHTQMPIRPLPFINNNYTYTTQI					
DG119-2a	Dr	----- ----- ----- ----- ----- ----- ----- -----						
DG119-2b	Dr	----- ----- ----- ----- ----- ----- ----- -----						
DG119-2	Mm	----- ----- ----- ----- ----- ----- ----- -----	KTRLRRNSYGNCFLVCGILYTVDTQNHEGQVAYAFDTHTGTDAPQLPFLNEYSYTTQV					
DG119-2	Hs	----- ----- ----- ----- ----- ----- ----- -----	KTRLRRNSYGNCFLVCGILYTVDTQNQEGQVAYAFDTHTGTDARPQLPFLNEHAYTTQI					
Olfactomedin-like domain -----								
		970	980	990	1000	1010	1020	
DG119-1	Mm	----- ----- ----- ----- ----- ----- ----- -----	DYNPKDRLLYAWDNGHQVTVYHVIFAY					
DG119-1	Hs	----- ----- ----- ----- ----- ----- ----- -----	DYNPKDRLLYAWDNGHQVTVYHVIFAY					
DG119-1a	Dr	----- ----- ----- ----- ----- ----- ----- -----	DYNPKERVLYAWDNGHQVTVYNQFAY					
DG119-1b	Dr	----- ----- ----- ----- ----- ----- ----- -----	DYNPKERMLYAWDNGHQVTVYDVIF--					
DG119-2a	Dr	----- ----- ----- ----- ----- ----- ----- -----						
DG119-2b	Dr	----- ----- ----- ----- ----- ----- ----- -----						
DG119-2	Mm	----- ----- ----- ----- ----- ----- ----- -----	DYNPKERVLYAWDNGHQVTVYTLHFVV					
DG119-2	Hs	----- ----- ----- ----- ----- ----- ----- -----	DYNPKERVLYAWDNGHQVTVYTLHFVV					
Olfactomedin-like dom.---								

Fig. 7 (cont.)

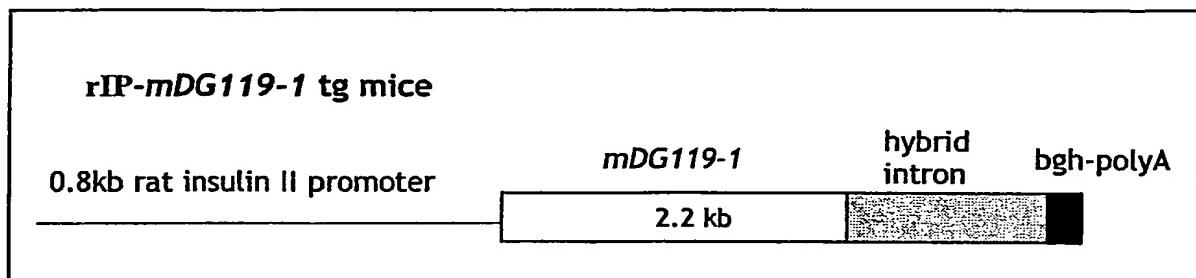


Fig. 8A

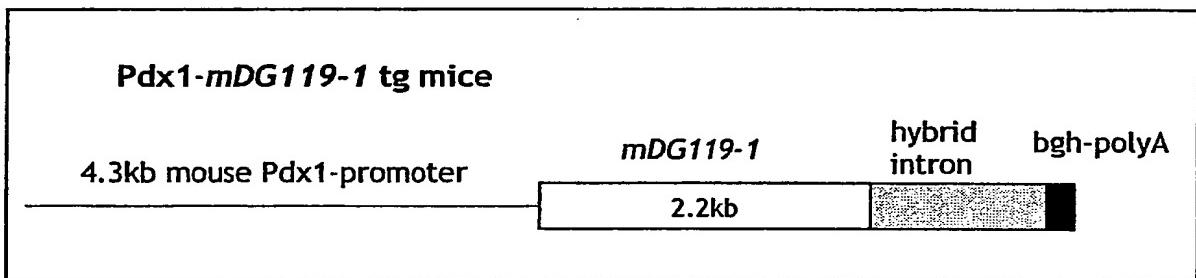


Fig. 8B

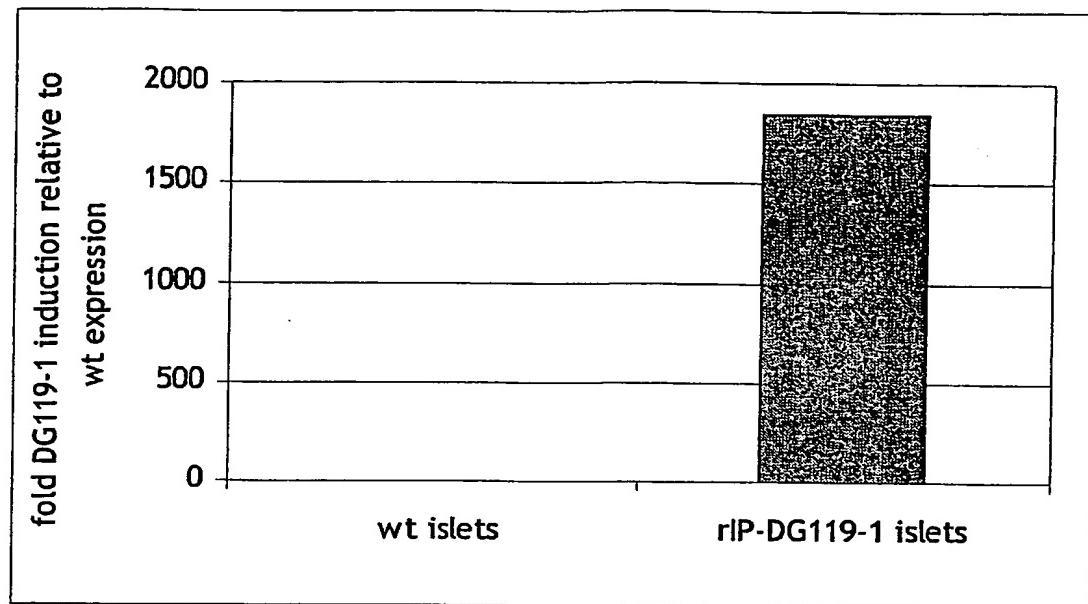


Fig. 9A

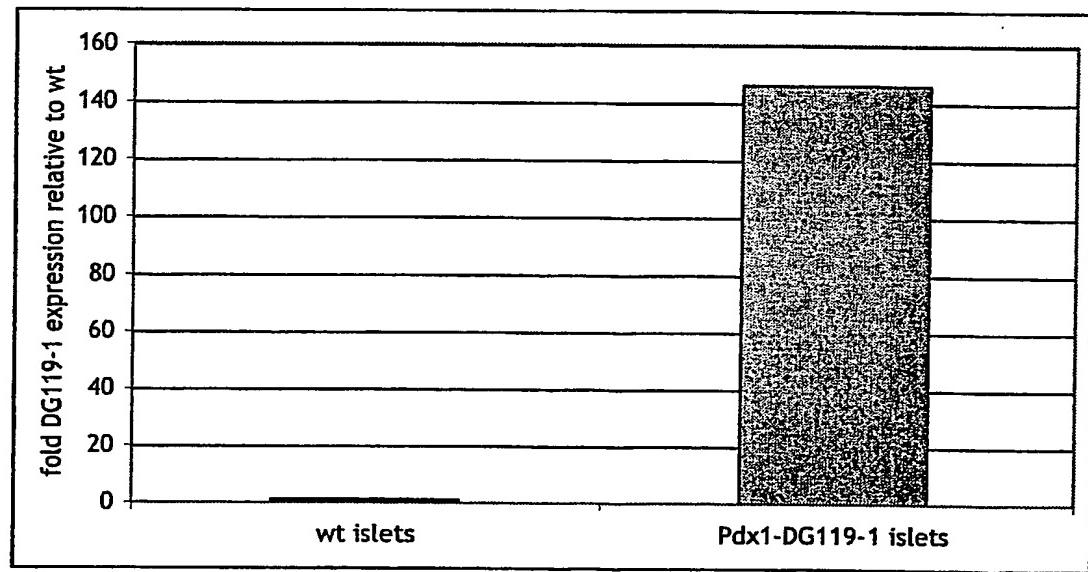


Fig. 9B

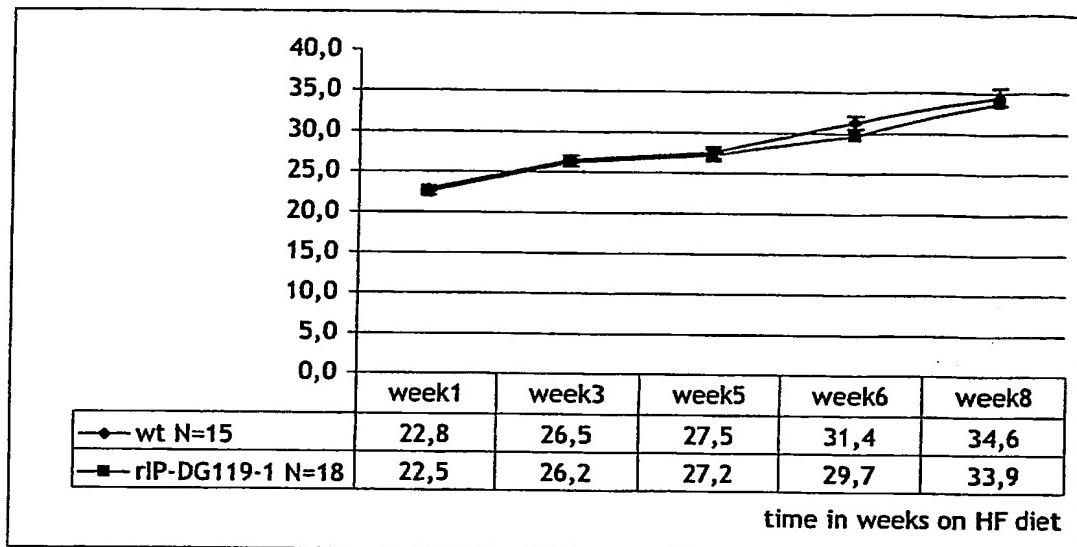


Fig. 10A

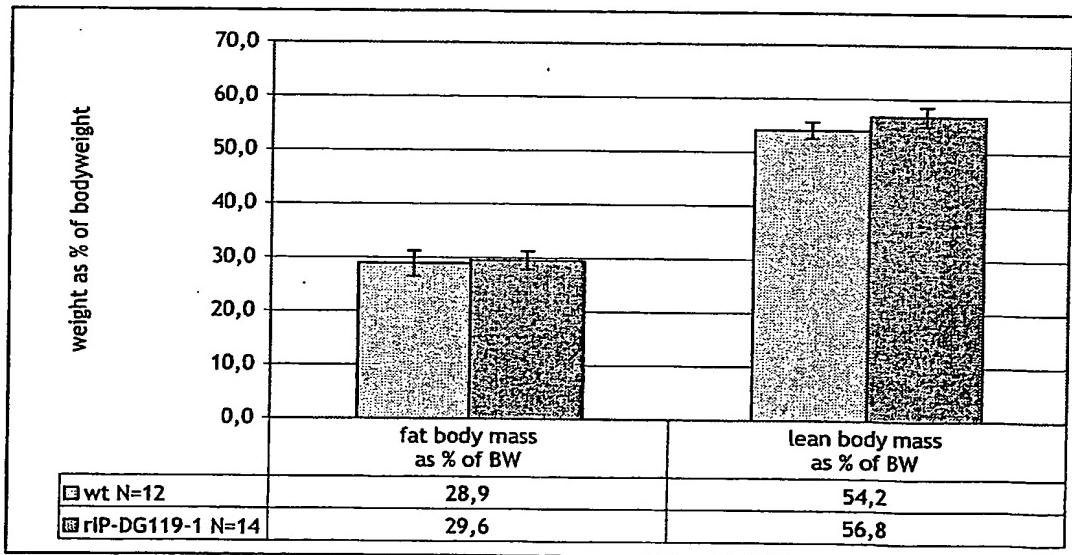
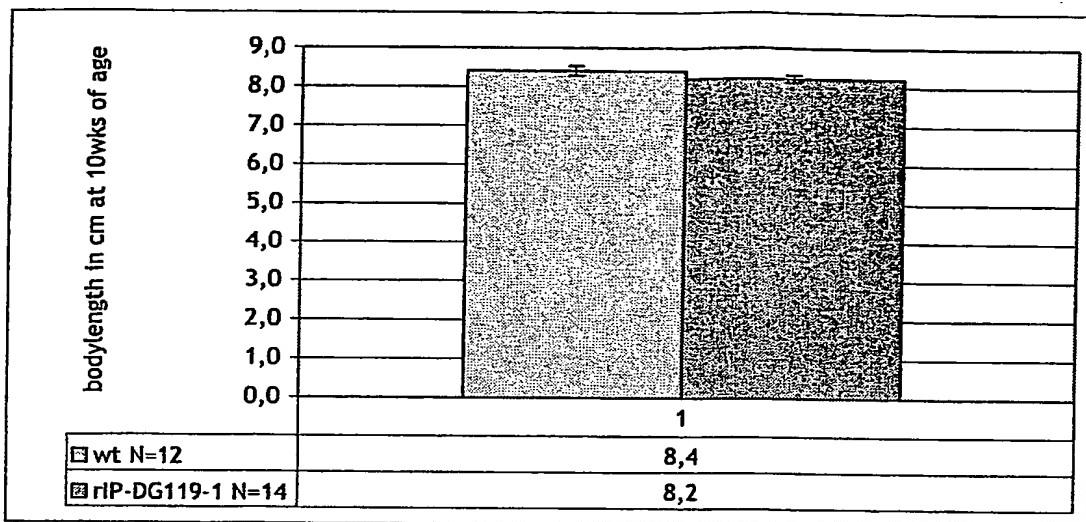


Fig. 10B

**Fig. 11**

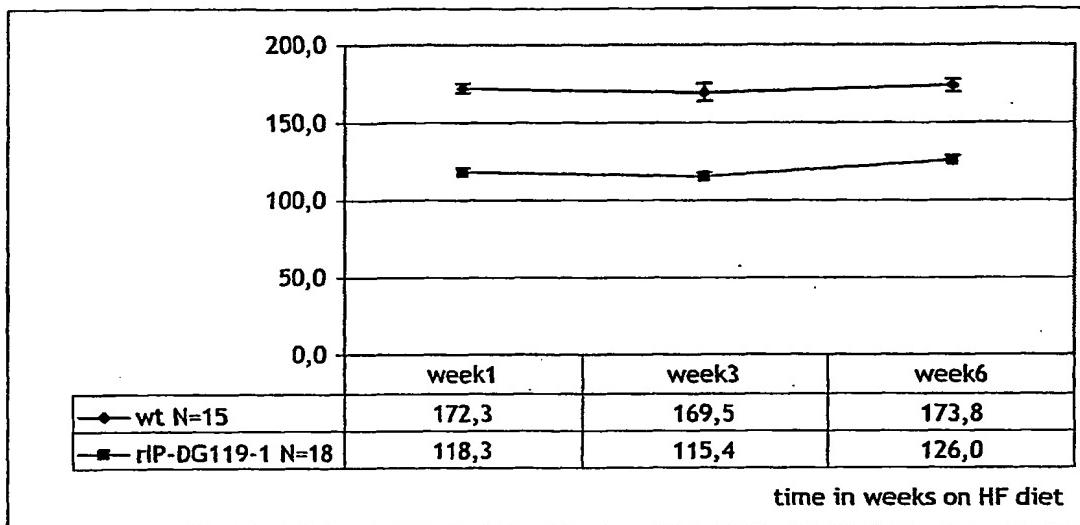


Fig. 12A

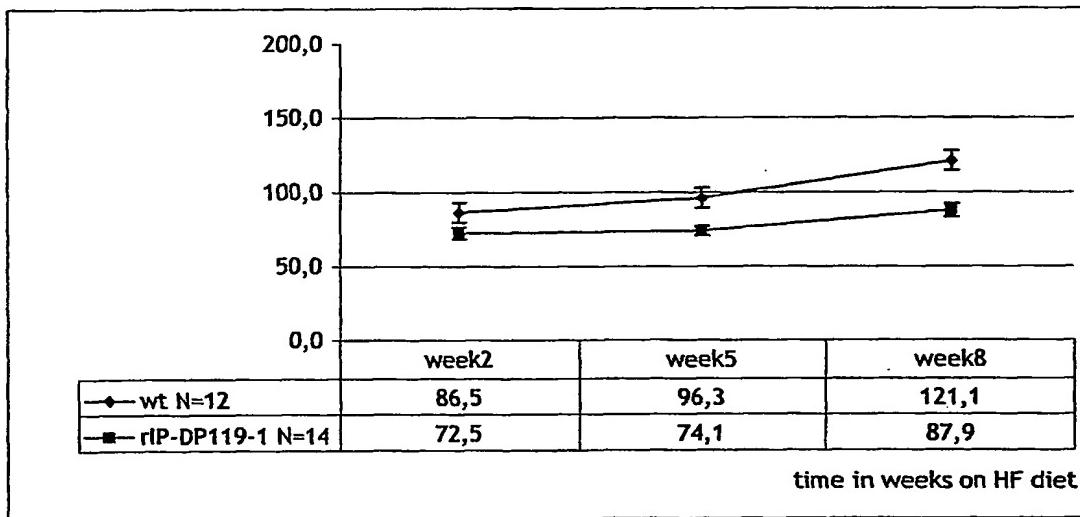


Fig. 12B

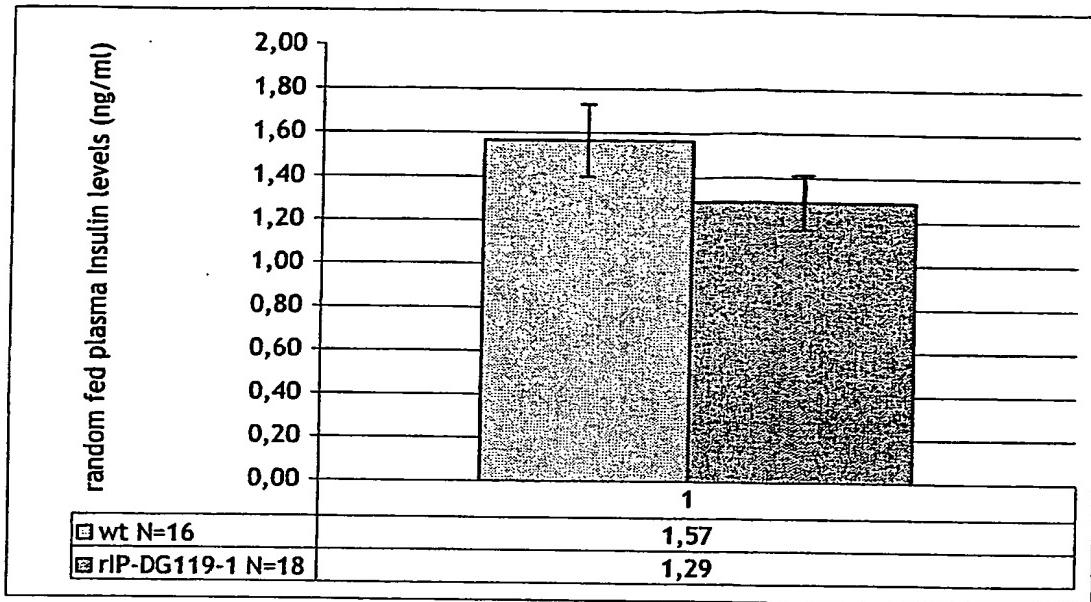


Fig. 13A

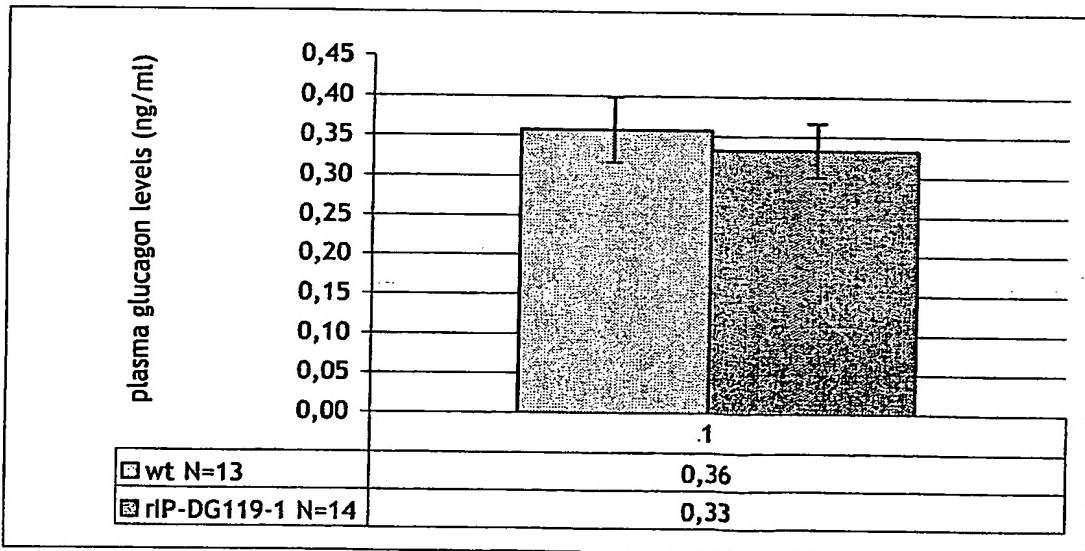


Fig. 13B

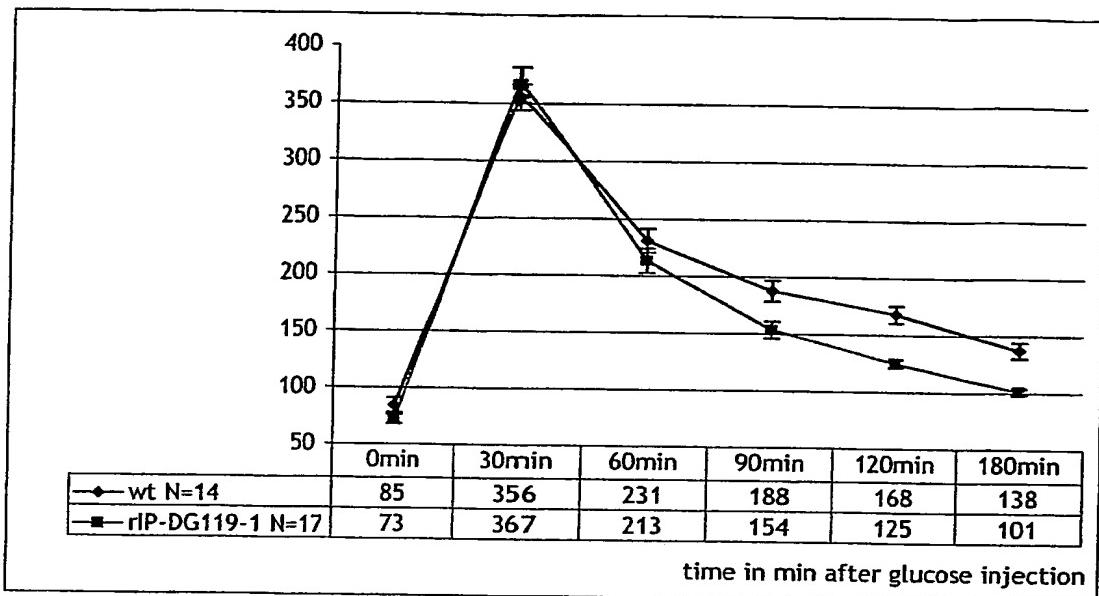


Fig. 14A

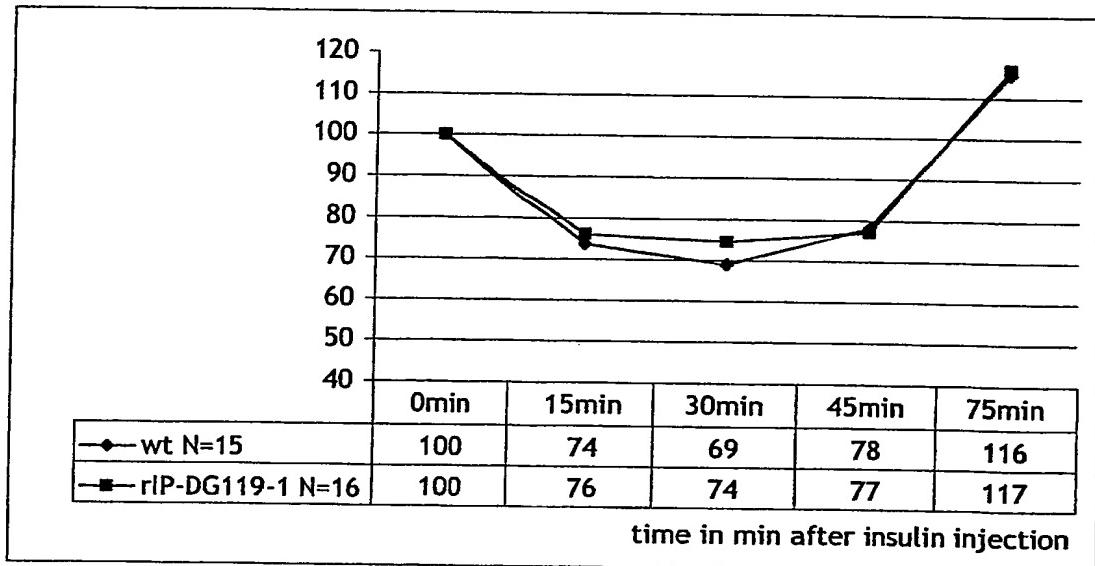


Fig. 14B

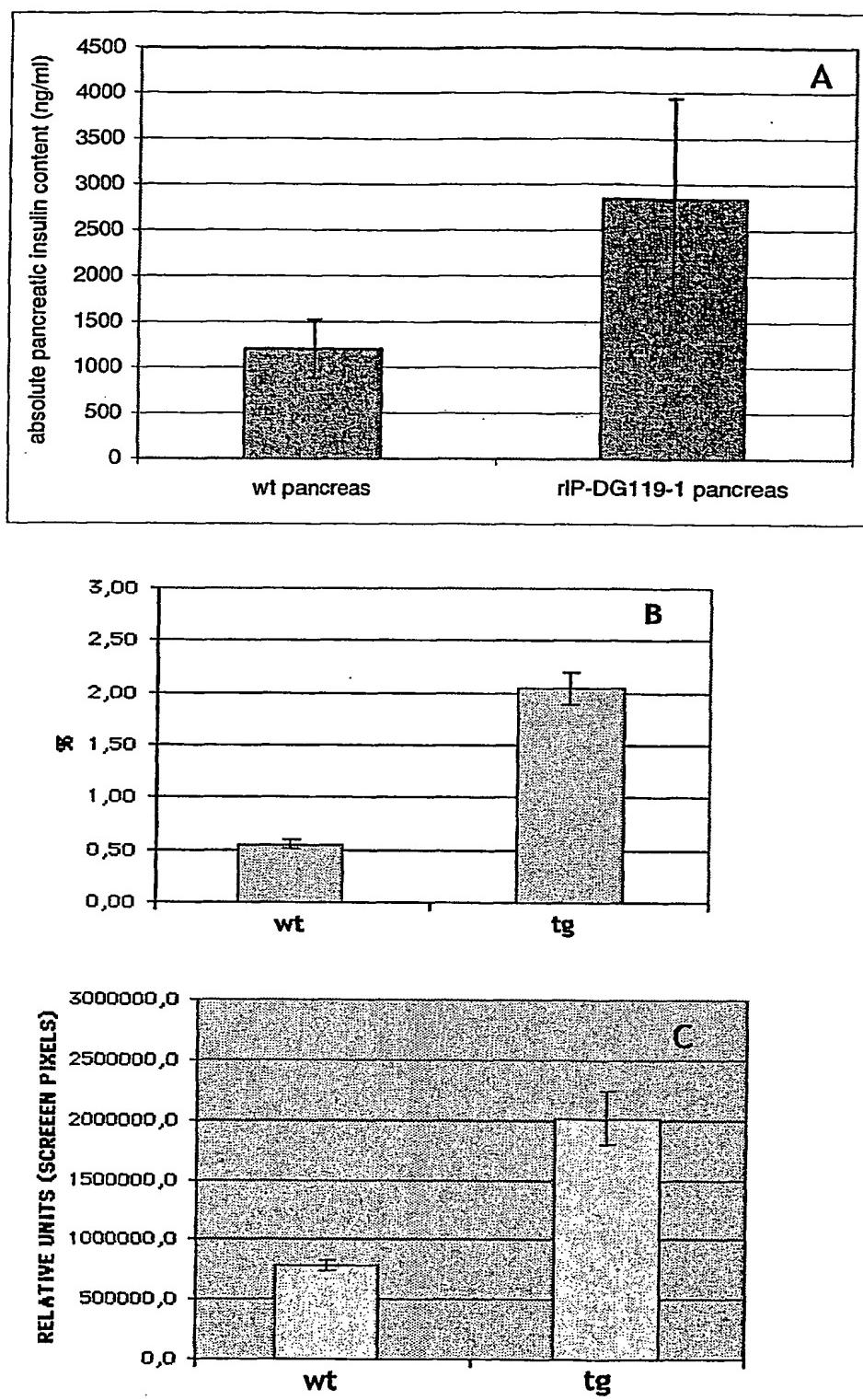


Fig. 15

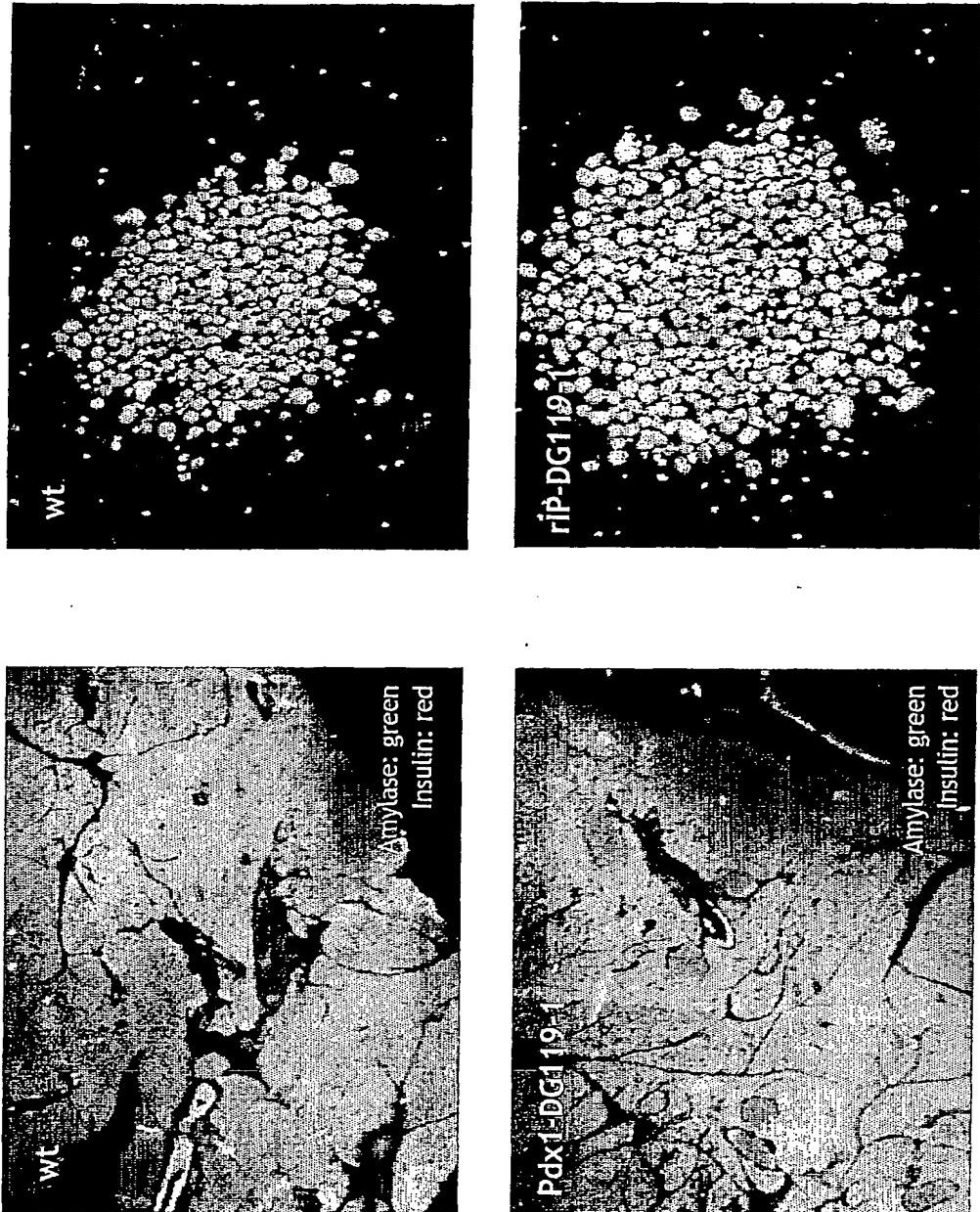


Fig. 16

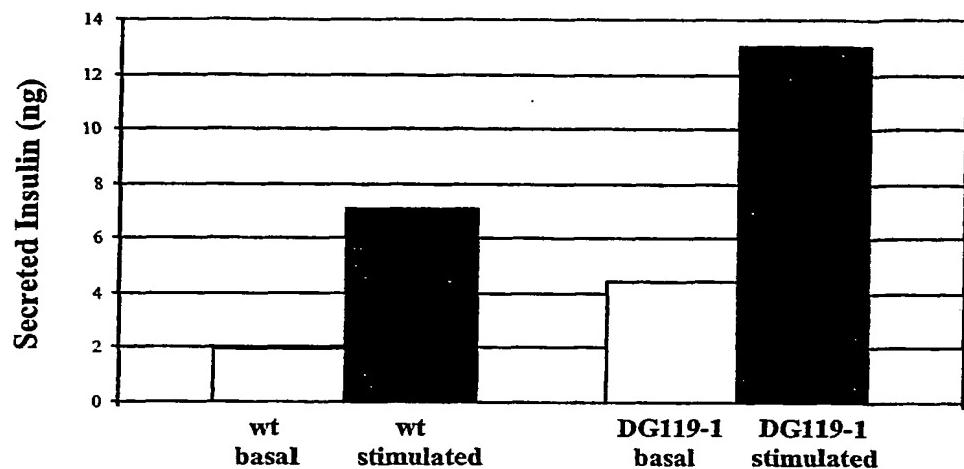


Fig. 17

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